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NOTICE OF ALLOWANCE AND FEE(S) DUE

35236 7590 02/22/2008 THE CULBERTSON GROUP, P.C. 1114 LOST CREEK BLVD. SUITE 420

ALISTIN TX 78746

EXAMINER
TAT, BINH C
ART UNIT PAPER NUMBER
2825

DATE MAILED: 02/22/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/915,437	07/26/2001	Sang Hoo Dhong	956.1061	7370

TITLE OF INVENTION: METHOD OF LOGIC CIRCUIT SYNTHESIS AND DESIGN USING A DYNAMIC CIRCUIT LIBRARY

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	05/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL $\ensuremath{\mathsf{FEE}}(S)$ DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off	or trans ig the F ierwise	smitting the ISSU atent, advance of in Block 1, by (a	JE FEE and PUBLICAT rders and notification of a) specifying a new corre	TON FEE (if requestion of the	ired). I vill be ; and/o	Blocks 1 through 5 sl mailed to the current r (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Nose: Use Block 1 for any change of address)				No Fe pa	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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THE CULBERTSON GROUP, P.C. 1114 LOST CREEK BLVD. SUITE 420				I h Sta ade tra	ereby certify that the tes Postal Service of dressed to the Mai asmitted to the USF	tificate iis Fee(vith suf I Stop TO (57	e of Mailing or Transes s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the de-	mission ; deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
AUSTIN, TX 78	746			Г				(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	₹	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/915,437	07/26/2001			Sang Hoo Dhong		956,1061 7370		
TITLE OF INVENTION					_			
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nonprovisional	NO		\$1440	\$300	\$0		\$1740	05/22/2008
EXAM	INER		ART UNIT	CLASS-SUBCLASS]			
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"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ess an assignee is ident in 37 CFR 3.11. Comp	" Indica icd. Use A TO BI	tion form of a Customer E PRINTED ON		ively, the firm (having as agent) and the nan orneys or agents. If printed. pre) patent. If an assign assignment.	memb es of u no nam	p to p to get is 3	ocument has been filed for
Please check the appropri		categor		p. Payment of Fee(s): (Ple		_		sup entity Government
Issue Fee	o small entity discount		45	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order - #		, crimine		The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Stat	us (from status indicate s SMALL ENTITY state			☐ b. Applicant is no lo				
NOTE: The Issue Fee and interest as shown by the r	Publication Fee (if req ecords of the United Sta	uired) w ites Pate	vill not be accepte nt and Trademark					e assignee or other party in
Authorized Signature					Date			
Typed or printed name					-			
This collection of informan application. Confident submitting the completed this form and/or suggestit Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	U.S.C. U.S.C. USPTO rden, sh O NOT S	11. The information 122 and 37 CFR O. Time will vary ould be sent to the SEND FEES OR	on is required to obtain or 1.14. This collection is e depending upon the indi e Chief Information Offic COMPLETED FORMS	retain a benefit by stimated to take 12 vidual case. Any co ser, U.S. Patent and O THIS ADDRES	he pub minute: omment Trader S. SEN	lic which is to file (and s to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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UNITED STATES PATENT AND TRADEMARK OFFICE

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1114 LOST CRE	EK BLVD.		ART UNIT	PAPER NUMBER	
SUITE 420 AUSTIN, TX 78	746		2825 DATE MAILED: 02/22/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 915 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 915 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
09/915,437	DHONG ET AL.	
Examiner	Art Unit	
DINIL C TAT	2025	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 12/18/07.
- The allowed claim(s) is/are 1-7,13 and 15-18.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. \(\sum \) Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date ______.
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other _____.

DETAILED ACTION

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

I. Claims 1-7, 13, and 15-18 are allowed because the prior art does not teach a method of designing a logic circuit to provide a predetermined logical operation, the

method including the steps of: performing logic synthesis for the predetermined logical

operation to produce an intermediate circuit, the logic synthesis being performed utilizing

a synthesis library constrained to the logic synthesis block; eliminating unused devices in

the intermediate circuit to produce a final circuit; and sizing the devices in the final

circuit, and with the combination of all other features corresponding to the independent

claims.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance".

Page 3

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Binh C. Tat whose telephone number is (703) 305-4855.

The examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mathew Smith can be reached on (703) 308-1323. The fax phone number for

the organization where this application or proceeding is assigned is 571 273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

/Tat Binh/

Patent Examiner

February 13, 2008

/Jack Chiang/

Supervisory Patent Examiner, Art Unit 2825

Application Number

Application/Control No.	Applicant(s)/Patent under Reexamination		
09/915,437	DHONG ET AL.		
Examiner	Art Unit		
BINH C TAT	2825		